

Mechanical Data Sheet: Vessel

Plant Item No. 24590-PTF-MV-FEP-VSL-00005

Data Sheet No. 24590-PTF-MVD-FEP-P0003

Project	RPP-WTP	P&IDs	24590-PTF-M6-FEP-P0003		
Project No	24590	Paids	24390-F1F-M0-FEF-FUUU3		
Project Site	DOE Hanford	Process Data Sheets	24590-PTF-MEC-FEP-00001		
System No	FEP	Process Data Sneets	24590-P1F-MEC-FEP-00001	ISSUED BY	
Building	PTF	Vessel Drawings	N/A	APP-WIP POCZ	
		Vessei Drawings	IN/A	CANA (MISOLOS	
Description	Waste Feed Evapo	Waste Feed Evaporator Condensate Vessel FEP-VSL-00005			

Reference Data

(Tag Numbers)	N/A
Pulse Jet Mixers / Agitators (Tag Numbers)	N/A
RFDs/Pumps (Tag Numbers)	N/A

Service Data

Quality Level	СМ	Fabrication Specification	24590-WTP-3PS-MV00-TP001
Seismic Category	SC-III	Design Code	ASME Section VIII Division 1
Service/Contents	Process Condensate	Code Stamp	Yes
Design Specific Gravity	1.0	NB Registration	Yes
Max Operating Volume ga	4144**	Wind Design	None
Total Volume ga	5022**	Snow/Ash Design	None
Postweld Heat Treat	Not Required	Seismic Design	24590-WTP-3PS-MV00-TP002
Seismic Base Moment* ft*lb		Seistric Design	24590-WTP-3PS-SS90-T0001

Design Data

Inside Diameter	inch	96**		Corrosion Allowance		inch 0.04		
Length/Height (TL-TL)	ınch							
		Vessel Operating	Vessel Design	Coil/Jacket Design	Notes		-	
Internal Pressure	PSIG	-0.07	15	N/A				
External Pressure	PSIG	0	14.7	N/A				
Temperature	°F	110	150	N/A				
Min Design Metal Temp	°F	4:	9	Hydrostatic Test Pressure		PSIG	22	•

Material of Construction

Component	Matenal	Containment	Notes
Top Head	SA-240 T316L	Auxiliary	1/4" thickness; maximum carbon content of 0.030% for welded components
Shell	SA-240 T316L	Primary	1/4" thickness; maximum carbon content of 0.030% for welded components
Bottom Head	SA-240 T316L	Primary	1/4" thickness; maximum carbon content of 0.030% for welded components
Vessel Support	Stainless Steel	N/A	Maximum carbon content of 0.030% for welded components
Jacket/Coils/Half-Pipe Jacket	N/A	N/A	
Internals	N/A	N/A	
Pipe	SA-312 TP316	Note 1	Maximum carbon content of 0.030% for welded components
Forgings/ Bar stock	SA-182 F316	Note 1	Maximum carbon content of 0.030% for welded components
Gaskets	Flex Spiral Wound		Flexitallic spiral wound
Bolting	A193 GR B7		With 2 hex. Nuts
Other			a was

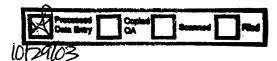
Note Please note that source, special nuclear and byproduct materials, as defined in the Atomic Energy Act of 1954 (AEA), are regulated at the U.S. Department of Energy (DOE) facilities exclusively by DOE acting pursuant to its AEA authority DOE asserts, that pursuant to the AEA, it has sole and exclusive responsibility and authority to regulate source, special nuclear, and byproduct materials at DOE-owned nuclear facilities. Information contained herein on radionuclides is provided for process description purposes only

10/19/03

EXPIRES 12/10/04

This Bound Document Contains a total of 2 pages

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0	Issued for Permitting Use	J. Jackson	C. Morley	S. Kirk	10/29/2002
REV	REASON FOR REVISION	PREPARER	REVIEWER	APPROVER	Date





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Data Sheet No. Rev (24590-PTF-MVD-FEP-P0003

Miscellaneous Data

Orientation	Vertical
Support Type	Skirt
Insulation Function	None
Insulation Thickness inch	None
Insulation Material	None
External Finish	Welds descaled as laid
Internal Finish	Welds ground smooth

Notes

* To be determined by Seller.

Notes: (1) Nozzles located below the top of the overflow nozzle are primary containment. See 24590-WTP-3PS-MV00-TP001 for NDE requirements.

- (2) Nozzie tolerance +/- 1/4"
- (3) Support pads shall be high to align vessel overflow nozzle centerline at 15'-5 3/8"
- (4) 40 years design life
- (5) NDE for this vessel must meet requirements per para. 6.4.2 of specification 24590-WTP-3PS-MV00-TP001

^{**} To be verified bySeller.